Lesson Plan: Feeding Frenzy Sampling
Field Trip Program: Exploring Lake Lowell
Location: Lake Lowell Park

Intended Grade(s): 2nd & 3rd **Overview and Purpose:**

Idaho State Standards

- 2.S.3.2.1. Identify four basic needs of all living things (food, shelter, water, space).
- 2.S.3.2.2. Discuss how animals are suited to live in different habitats.
- 2.S.1.6.2-4. Make observations, analyze information and evidence; communicate observations.
- 3.S.3.1.1. Describe the adaptations of plants and animals to their environment.
- 3.S.5.1.1. Identify local environmental issues.

Common Core State Standards

- CCSS.ELA-LITERACY.SL.2.1. Ask for clarification and futher explanation as needed about the topics under discussion.
- CSS.ELA-LITERACY.SL.2.2. Recount or describe key ideas or details from information presented orally or through other media.
- CSS.ELA-LITERACY.SL.2.3. Ask and answer questions about what a speaker says in order to clarify comprehansion, gather additional information, or deepen understanding of a topic or issue.
- CSS.ELA-LITERACY.SL.3.1.C. Ask quesetions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.
- CSS.ELA-LITERACY.SL.3.1.D. Explain their own ideas and understanding in light of the discussion.
- CSS.ELA.LITERACY.SL.3.3. Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.

Next Generation Science Standards

- 2-LS2-1. Make obervations to collect data which can be used to make comparisions.
- 2-LS4-1. There are many different kinds of living things in any area, and they exisit in different places on land and in water.
- 3-LS4-4. When the environment changes in ways that affect a place's physical characteristics, temperature, or availability of resources, some organisms survive and reproduce, others move to new locations, yet others move into the transformed environment, and some die.
- 3-LS4-1. For any particular environment, some kinds of organisms survive well, some survive less well, and some cannot survive at all.
- 3-LS4-4. Populations live in a variety of habitats, and change in those habitats affects the organisms living there.

Key Concepts

- Students will understand that Lake Lowell, and other bodies of water, are habitats for a variety of animals, including macroinvertebrates.
- Students will learn that aquatic macroinverterates can be affected by the quality of the water in their habitat.
- Students will be able to recognize the basic requirements of good water quality.

Enduring Inderstanding

- Macroinvertebrates are an important part of the Lake Lowell habitat..
- Changes in water quality can impact the creatures that live in the water.
- Macroinvertebrates and humans often have similar requirements for good water quality: relatively cold, clear, unpolluted water.

Essential Questions

- •How do different macroinvertebrates react to changes in water quality?
- •What does "good" water quality mean, and why is it important?
- •How might human activity impact the water quality of habitats like Lake Lowell?

Critical Vocabulary: These are terms that students should hear during the lesson. Interpretive specialists should review lesson plans and vocabulary before delivering a program, to make sure that they are able to interpret/explain these words and concepts.

Habitat	Macroinvertebrate	Nymph	Predators
Prey	Trout	Mayfly	Dragonfly
Leech	Parasite	Moult	Water quality
Pollution	Sensitive	Tolerant	Moderately tolerant